

Phase Two Assessment

Quiz Portal

SQL COMMANDS

```
create database phasetwo
use phasetwo
```

-- creating student database

```
create table student (ID bigint(10) primary key ,Name varchar(100),marks int(100))
```

```
insert into student values(1,'Max',12)
```

```
insert into student values(2,'Maxi',12)
```

```
select* from student order by marks desc
```

-- this table is for storing username and password of both admin and user wiht a role column which indicates user of admin.

```
create table studentid(Sname varchar(50) , pwd varchar(80),role varchar(10))
```

```
insert into studentid values('Max','max123','user')
```

```
insert into studentid values('admin','admin01','admin')
```

```
select * from studentid
```

-- this table is for the quiz questions

```
create table Questions (question varchar(100), choice1 varchar(20) , choice2
varchar(20) , correcta varchar(50))
```

```
select * from Questions
```

-- this table is for quiz number

```
create table Quiz(qid int primary key , qno int)
```

```
select * from Quiz
```

Index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body align="center">
<h1>Welcome to Quiz Portal</h1><br>
<form action="login.jsp" method="get">
UserName-<input type="text" name="uname"/>
Password-<input type="password" name="pwd"/>
<button>Login</button>
</form>
</body>
</html>
```

Login.jsp

```
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ page import="java.sql.*" %>
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Qwer123!@#" />
<%
String un = request.getParameter("uname");
String pwd = request.getParameter("pwd");
String role = "";
try {
Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/phasetwo", "root",
"Qwer123!@#");
PreparedStatement statement = connection.prepareStatement("SELECT role FROM
studentid WHERE Sname = ? AND pwd = ?");
statement.setString(1, un);
statement.setString(2, pwd);
ResultSet resultSet = statement.executeQuery();
if (resultSet.next()) {
```

```

role = resultSet.getString("role");
session.setAttribute("uname", un);
}
resultSet.close();
statement.close();
connection.close();
} catch (SQLException e) {
e.printStackTrace();
}
if (role.equals("admin")) {
response.sendRedirect("admindashboard.jsp");
} else if (role.equals("user")) {
response.sendRedirect("dashboard.jsp");
} else {
response.sendRedirect("login.jsp?error=true");
}
%>

```

Admindashboard.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Admin</title>
</head>
<body align="center">
<h1>Welcome Adminstrator</h1>
<table border=1 align="center">
<tr>
<th>Leaderboard</th>
<th>CreateQuiz</th>
<th>Add Student</th>
<th>Update Name</th>
</tr>
<tr>
<td><a href="profile.jsp">Click here</a></td>
<td><a href="createquiz.jsp">Click here</a></td>
<td><a href="insert.jsp">Click here</a></td>
<td><a href="update.jsp">Click here</a></td>
</tr>
</table>
<a href="index.jsp">LOGOUT</a>
</body>
</html>

```

Profile.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql"%>
<html>
<body align="center">
<h3>LeaderBoard</h3>
<sql:setDataSource var="phasetwo" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Qwer123!@#" />
<sql:query dataSource="${phasetwo}" sql="SELECT * FROM student ORDER BY
marks DESC " var="result" />
<table border=1 align="center">
<tr>
<th>ID</th>
<th>Name</th>
<th>Marks</th>
</tr>
<c:forEach var="row" items="${result.rows}">
<tr>
<td><c:out value="${row.id}" /></td>
<td><c:out value="${row.name}" /></td>
<td><c:out value="${row.marks}" /></td>
<td><a href="delete.jsp">Delete</a></td>
<td><a href="Changepwd">Change password</a></td>
</tr>
</c:forEach>
</table>
</body>
</html>
```

Insert.jsp

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert Details</title>
</head>
<body align="center">
<!-- Database Connection Parameters -->
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Qwer123!@#" />
```

```

<!-- Insertion Form -->
<h2>Insert New Student</h2>
<form action="" method="POST">
<label for="id">ID:</label>
<input type="text" name="id" id="id" required><br><br>
<label for="name">Name:</label>
<input type="text" name="name" id="name" required><br><br>
<label for="marks">Marks:</label>
<input type="text" name="marks" id="marks" required><br><br>
<label for="pwd">Password</label>
<input type="text" name="pwd" id="pwd"/><br><br>
<label for="role">User or Admin:</label>
<input type="text" name="role" id="role" required><br><br>
<input type="submit" value="Insert">
</form>
<!-- Insertion Logic -->
<c:if test="${not empty param.id and not empty param.name and not empty
param.marks}">
<sql:update dataSource="${dataSource}" var="insertResult">
INSERT INTO student (id, name, marks)
VALUES (?, ?, ?)
<sql:param value="${param.id}" />
<sql:param value="${param.name}" />
<sql:param value="${param.marks}" />
</sql:update>
</c:if>
<c:if test="${not empty param.name and not empty param.pwd}">
<sql:update dataSource="${dataSource}" var="insertResult1">
INSERT INTO studentid (Sname, pwd , role)
VALUES (?, ?, ? )
<sql:param value="${param.name}" />
<sql:param value="${param.pwd}" />
<sql:param value="${param.role}" />
</sql:update>
</c:if>
<!-- Displaying Insertion Result -->
<c:if test="${insertResult > 0}">
<p>Insertion successful!</p>
</c:if>
</body>
</html>

```

Delete.jsp

```

<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">

```

```

<title>Delete Values</title>
</head>
<body align="center">
<!-- Database Connection Parameters -->
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Ower123!@#" />
<!-- Deletion Form -->
<h2>Delete Value</h2>
<form action="" method="POST">
<label for="id">ID:</label>
<input type="text" name="id" id="id" required<br><br>
<input type="submit" value="Delete">
</form>
<!-- Deletion Logic -->
<sql:update dataSource="${dataSource}" var="deleteResult">
DELETE FROM student WHERE id = ?
<sql:param value="${param.id}" />
</sql:update>
<!-- Displaying Deletion Result -->
<c:if test="${deleteResult > 0}">
<p>Deletion successful!</p>
</c:if>
</body>
</html>

```

Update.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Update Details</title>
</head>
<body align="center">
<!-- Database Connection Parameters -->
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Ower123!@#" />
<!-- Update Form -->
<h2>Update Student Name</h2>
<form action="" method="POST">
<label for="id">ID:</label>
<input type="text" name="id" id="id" required<br><br>
<label for="name">New Name:</label>
<input type="text" name="newName" id="newName" required<br><br>

```

```

<input type="submit" value="Update">
</form>
<!-- Update Logic -->
<sql:update dataSource="${dataSource}" var="updateResult">
UPDATE student SET name = ? WHERE id = ?
<sql:param value="${param.newName}" />
<sql:param value="${param.id}" />
</sql:update>
<!-- Displaying Update Result -->
<c:if test="${updateResult > 0}">
<p>Update successful!</p>
</c:if>
</body>
</html>

```

Changepwd.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="Changepwd" method="get">
Old password-<input type="text" name="currentPassword"/>
New password-<input type="text" name="newPassword"/>
<button>Submit</button>
</form>
</body>
</html>

```

Changepwd.java(servlet)

```

package com;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;

```

```

import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class ChangePwd extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

        HttpSession session=request.getSession();
        String username = (String) session.getAttribute("uname");
        String currentPassword = request.getParameter("currentPassword");
        String newPassword = request.getParameter("newPassword");
        boolean passwordChanged = false;

        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/phasetwo", "root",
"Ower123!@#");
            PreparedStatement statement = connection.prepareStatement("SELECT
* FROM srudentid WHERE Sname = ? AND pwd = ?");
            statement.setString(1, username);
            statement.setString(2, currentPassword);
            ResultSet resultSet = statement.executeQuery();

            if (resultSet.next()) {
                resultSet.close();
                statement.close();

                PreparedStatement updateStatement =
connection.prepareStatement("UPDATE studentid SET pwd = ? WHERE Sname = ?");
                updateStatement.setString(1, newPassword);
                updateStatement.setString(2, username);
                updateStatement.executeUpdate();
                updateStatement.close();

                passwordChanged = true;
            } else {
                resultSet.close();
                statement.close();
            }

            connection.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
        catch(ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
}

```



```

    }

    if (passwordChanged) {
        response.sendRedirect("admindashboard.jsp");
    } else {
        response.sendRedirect("profile.jsp");
    }
}
}
}

```

Dashboard.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Dashboard</title>
</head>
<sql:setDataSource var="phasetwo" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Qwer123!@#" />
<sql:query dataSource="${phasetwo}" sql="SELECT * FROM Quiz " var="result" />
<sql:query dataSource="${phasetwo}" sql="SELECT * FROM Questions " var="resultq"
/>
<body align="center">
<% out.println("<h1>Welcome "+session.getAttribute("uname")+"</h1>"); %>
<table border=1 align="center">
<tr>
<th>Profile-></th>
<th>Quiz-></th>
</tr>
<tr>
<td><a href="dashboard1.jsp">Click here</a></td>
<td><a href="quiz.jsp">Click here</a></td>
</tr>
</table><hr>
<table border=1 align="center">
<tr>
<th>Quiz Number</th>
<th>Question Name</th>
</tr>
<c:forEach var="row" items="${result.rows}">
<tr>
<td><c:out value="${row.qid}" /></td>
<td><c:out value="${row.qno}" /></td>
</tr>

```

```

        </c:forEach>
    </table><hr>
    <table border=1 align="center">
        <tr>
            <th>Question</th>
            <th>Choice1</th>
            <th>Choice2</th>
            <th>Answer</th>
        </tr>
        <c:forEach var="row" items="${resultq.rows}">
            <tr>
                <td><c:out value="${row.question}" /></td>
                <td><c:out value="${row.choice1}" /></td>
                <td><c:out value="${row.choice2}" /></td>
                <td><c:out value="${row.correcta}" /></td>
            </tr>
        </c:forEach>
    </table><hr>
    <a href="index.jsp">LOGOUT</a>
</body>
</html>

```

Dashboard1.jsp

```

<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>User Details</title>
</head>
<body align="center">
<h1>User Details</h1>
<!-- Database Connection Parameters -->
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Qwer123!@#" />
<!-- Retrieve Logged-in User ID from Session -->
<!-- Assuming the user ID is stored in the session as "userId" -->
<c:set var="uname" value="${sessionScope.uname}" />
<!-- Retrieve User Details from the Database -->
<sql:query dataSource="${dataSource}" var="userDetails">
SELECT id, name, marks FROM student WHERE name = ?
<sql:param value="${uname}" />
</sql:query>
<!-- Display User Details -->
<c:choose>
<!-- Check if user details are retrieved -->

```

```

<c:when test="{not empty userDetails.rows}">
<table border=1 align="center">
<tr>
<th>ID</th>
<th>Name</th>
<th>Marks</th>
</tr>
<c:forEach var="user" items="{userDetails.rows}">
<tr>
<td><p>ID: ${user.id}</p></td>
<td><p>Name: ${user.name}</p></td>
<td><p>Marks: ${user.marks}</p></td>
</tr>
</c:forEach>
</table>
</c:when>
<!-- Display error message if no user details found --%>
<c:when test="{userDetails.rowCount == 0}">
<p>User details not found for ${uname}.</p>
</c:when>
<!-- Display error message for database retrieval issues --%>
<c:otherwise>
<p>Error retrieving user details. Please try again later.</p>
</c:otherwise>
</c:choose>
</body>
</html>

```

Createquiz.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Create Quiz Question</title>
</head>
<body>
<h2>Create Quiz Question</h2>
<form action="QuizCreationServlet" method="post">
<label for="quiz">Quiz No:</label>
<input type="number" id="quiz" name="quiz" required><br><br>
<label for="questionnumber">Question No:</label>
<input type="number" id="quesionnumber" name="questionnumber"
required><br><br>
<label for="question">Question:</label><br>
<input type="text" id="question" name="question" required><br><br>
<label for="choice">Choice1:</label><br>

```

```

<input type="text" id="choice" name="choice" required><br><br>
<label for="choice2">Choice2:</label><br>
<input type="text" id="choice2" name="choice2" required><br><br>
<label for="correct">Correct Answer</label><br>
<input type="text" id="correct" name="correct" required><br>
<input type="submit" value="Create">
</form>
</body>
</html>

```

QuizCreation.java(servlet)

```

package com;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class QuizCreationServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

        String question = request.getParameter("question");
        String choice = request.getParameter("choice");
        String choice2 = request.getParameter("choice2");
        String correct = request.getParameter("correct");
        int qid =Integer.parseInt(request.getParameter("quiz"));
        int qno =Integer.parseInt(request.getParameter("questionnumber"));
        PrintWriter out=response.getWriter();

        try {
            // Establish database connection
            Class.forName("com.mysql.jdbc.Driver");
            Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/phasetwo", "root",
"Qwer123!@#");

```

```

// Prepare the SQL statement
String sql = "INSERT INTO Questions (question, choice1, choice2 ,
correcta) VALUES (?, ?, ?, ?)";
PreparedStatement statement = connection.prepareStatement(sql);
statement.setString(1, question);
statement.setString(2, choice);
statement.setString(3, choice2);
statement.setString(4, correct);

//enter the quiz number and the question number
String sq2 ="INSERT INTO Quiz (qid ,qno) VALUES (?, ?)";
PreparedStatement statement2 = connection.prepareStatement(sq2);
statement2.setInt(1, qid );
statement2.setInt(2, qno);
statement2.executeUpdate();

// Execute the SQL statement
int rowsInserted = statement.executeUpdate();

if (rowsInserted > 0) {
    out.println("Question and choice added successfully.");
} else {
    out.println("Failed to add question and choice.");
}

// Clean up resources
statement.close();
statement2.close();
connection.close();
} catch (SQLException e) {
    e.printStackTrace();
}
catch(ClassNotFoundException e) {
    e.printStackTrace();
}
}
}
}

```

Quiz.jsp

```

<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>
<!DOCTYPE html>
<html>






























```

```

<head>
<meta charset="UTF-8">
<title>Quiz</title>
</head>
<body align="center">
<h1>Quiz</h1>
<!-- Database Connection Parameters -->
<sql:setDataSource var="dataSource" driver="com.mysql.jdbc.Driver"
url="jdbc:mysql://localhost:3306/phasetwo" user="root" password="Ower123!@#" />
<!-- Retrieve Logged-in User ID from Session -->
<!-- Assuming the user ID is stored in the session as "userId" -->
<c:set var="uname" value="{sessionScope.uname}" />
<!-- Quiz Questions -->
<sql:query dataSource="{dataSource}" var="showquestions"> SELECT question
,choice1 ,choice2 FROM Questions </sql:query>
<table border=1 align="center">
<tr>
<th>Question</th>
<th>Choice1</th>
<th>Choice2</th>
</tr>
<c:forEach var="row" items="{showquestions.rows}">
<tr>
<td><c:out value="{row.question}" /></td>
<td><c:out value="{row.choice1}" /></td>
<td><c:out value="{row.choice2}" /></td>
</tr>
</c:forEach>
</table>
<label for="q1">Enter your choice number:</label><br>
<form action="" method="POST">
A<input type="radio" id="a1" name="a1" value="Delhi"/><br>
B<input type="radio" id="a1" name="a1" value="Bengaluru"/><br>
<button>Submit</button>
</form>
<!-- Quiz Submission Logic -->
<c:if test="{not empty param.a1}">
<!-- Calculate Quiz Score -->
<c:set var="score" value="0" />
<c:if test="{param.a1 == 'Delhi'}">
<c:set var="score" value="{score + 1}" />
</c:if>
<!-- Update Score in Database -->
<sql:update dataSource="{dataSource}" var="updateResult">
UPDATE student SET marks = ? WHERE name = ?
<sql:param value="{score}" />
<sql:param value="{uname}" />
</sql:update>
<!-- Display Submission Result -->

```

```
<c:if test="${updateResult > 0}">
<p>Quiz submitted successfully. Your score: ${score}</p>
</c:if>
</c:if>
</body>
</html>
```

- ▼  PhaseEndQuiz
 - >  Deployment Descriptor: PhaseEndQuiz
 - >  JAX-WS Web Services
 - ▼  Java Resources
 - ▼  src/main/java
 - ▼  com
 - >  Changepwd.java
 - >  QuizCreationServlet.java
 - >  Libraries
 - >  build
 - ▼  src
 - ▼  main
 - >  java
 - ▼  webapp
 - >  META-INF
 - ▼  WEB-INF
 - >  lib
 -  web.xml
 -  admindashboard.jsp
 -  createquiz.jsp
 -  dashboard.jsp
 -  dashboard1.jsp
 -  delete.jsp
 -  index.jsp
 -  insert.jsp
 -  login.jsp
 -  profile.jsp
 -  quiz.jsp
 -  update.jsp

Welcome to Quiz Portal

UserName- Password-

[Register](#)

Welcome Adminstrator

Leaderboard	CreateQuiz	Add Student	Update Name
Click here	Click here	Click here	Click here

[LOGOUT](#)

LeaderBoard

ID	Name	Marks		
2	Maxi	12	Delete	Change password
1	Max	1	Delete	Change password

Delete Value

ID:

Delete Value

ID:

Deletion successful!

LeaderBoard

ID	Name	Marks		
1	Max	1	Delete	Change password

Create Quiz Question

Quiz No:

Question No:

Question:

Choice1:

Choice2:

Correct Answer

Create

Insert New Student

ID:

Name:

Marks:

Password

User or Admin:

LeaderBoard

ID	Name	Marks		
2	Jhon	3	Delete	Change password
1	Max	1	Delete	Change password

Update Student Name

ID:

New Name:

LeaderBoard

ID	Name	Marks		
2	Jhon doe	3	Delete	Change password
1	Max	1	Delete	Change password

Welcome to Quiz Portal

UserName- Password-

[Register](#)

Welcome Max

Profile->	Quiz->
Click here	Click here

Available Quizes

Quiz Number	Question Number
1	1

Question	Choice1	Choice2	Answer
Capital of India	Delhi	Bengaluru	Delhi

[LOGOUT](#)

User Details

ID	Name	Marks
ID: 1	Name: Max	Marks: 1

Quiz

Question	Choice1	Choice2
Capital of India	Delhi	Bengaluru

Enter your choice number:

A ☐

B ☐

Quiz submitted successfully. Your score: 1

Welcome to Quiz Portal

UserName- Password-

[Register](#)

Welcome Jhon Doe

Profile->	Quiz->
Click here	Click here

Available Quizes

Quiz Number	Question Number
1	1

Question	Choice1	Choice2	Answer
Capital of India	Delhi	Bengaluru	Delhi

[LOGOUT](#)

User Details

ID	Name	Marks
ID: 2	Name: Jhon doe	Marks: 3

Quiz

Question	Choice1	Choice2
Capital of India	Delhi	Bengaluru

Enter your choice number:

A ☐

B ☐

Quiz submitted successfully. Your score: 1

User Details

ID	Name	Marks
ID: 2	Name: Jhon doe	Marks: 1